

# PATENT COOPERATION TREATY

## PCT

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### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference <b>PALGE04253</b>	<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. <b>PCT/KR 2004/002223</b>	International filing date ( <i>day/month/year</i> ) <b>2 September 2004 (02.09.2004)</b>	Priority Date ( <i>day/month/year</i> ) <b>22 September 2003 (22.09.2003)</b>
International Patent Classification (IPC) or national classification and IPC  <b>IPC<sup>8</sup>: F04B 39/00 (2006.01)i, F04B 39/12 (2006.01)i</b>		
Applicant <b>LG ELECTRONICS INC.</b>		

1. This international preliminary examination report has been prepared by this International Preliminary Examination Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of   3   sheets, including this cover sheet.

☐ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of            sheets.

3. This report contains indications relating to the following items:

- I.      ☒ Basis of the opinion
- II.     ☐ Priority
- III.    ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV.    ☐ Lack of unity of invention
- V.     ☒ Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI.    ☐ Certain documents cited
- VII.   ☐ Certain defects in the international application
- VIII. ☐ Certain observations on the international application

Date of submission of the demand  <b>22. April 2005 (22.04.2005)</b>	Date of completion of this report  <b>13 January 2006 (13.01.2006)</b>
Name and mailing address of the IPEA/AT <b>Austrian Patent Office          Dresdner Straße 87          A-1200 Vienna          Facsimile No. 1/53424/200</b>	Authorized officer  <b>RIEDER W.</b>  Telephone No. 1/53424/366

Form PCT/IPEA/409 (cover sheet) (July 1998)

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/KR 2004/002223

**I. Basis of the report**

## 1. With regard to the elements of the international application:\*

☒ the international application as originally filed☐ the description:

pages \_\_\_\_\_, as originally filed

pages \_\_\_\_\_, filed with the demand

pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_.

☐ the claims:

pages \_\_\_\_\_, as originally filed

pages \_\_\_\_\_, as amended (together with any statement) under Article 19

pages \_\_\_\_\_, filed with the demand

pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_.

☐ the drawings:

pages \_\_\_\_\_, as originally filed

pages \_\_\_\_\_, filed with the demand

pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_.

☐ the sequence listing part of the description:

pages \_\_\_\_\_, as originally filed

pages \_\_\_\_\_, filed with the demand

pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_.

## 2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language \_\_\_\_\_ which is:

☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).☐ the language of publication of the international application (under Rule 48.3(b)).☐ the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

## 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

☐ contained in the international application in printed form.☐ filed together with the international application in computer readable form.☐ furnished subsequently to this Authority in written form.☐ furnished subsequently to this Authority in computer readable form.☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.4. ☐ The amendments have resulted in the cancellation of:☐ the description, pages \_\_\_\_\_.☐ the claims, Nos. \_\_\_\_\_.☐ the drawings, sheets/fig \_\_\_\_\_.5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).\*\*

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as „originally filed“ and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

\*\* Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.  
PCT/KR 2004/002223**V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

<b>1. Statement</b>			
Novelty (N)	Claims	2-21	YES
	Claims	1	NO
Inventive step (IS)	Claims	2-21	YES
	Claims	1	NO
Industrial applicability (IA)	Claims	1-21	YES
	Claims	---	NO

## Citations and explanations (Rule 70.7)

Reference is made to the following documents:

D1: WO 2001/098658 A1

D2: JP 06-033877 A

The document D1 is regarded as being the closest prior art to the subject-matter of claim 1 and discloses a suspension system for a reciprocating compressor, a casing, a compressor main body, a supporting unit including a plurality of springs, which are fixed between a motor-pump unit and a shell and tightly wound parts between the end coils (see especially Fig. 3 of D1). Said document shows exactly the windings in the middle part of the coil, which have predetermined and regular pitches and the pitches increase from the end coil toward the middle part of the coil.

D2 (Figures 1 and 2) show also all relevant features of said claim 1.

Therefore said documents contain all the essential features of the present claim 1.

It follows that the subject-matter of claim 1 is not novel in the sense of Article 33 (2) PCT.

However the subject-matter of the residual dependent claims 2-21 are novel (Article 33 (2) PCT) and meet the requirements of article 33 (3) PCT in respect of inventive step.

Industrial applicability is given for all claims.